

Program Agenda (Day One)

Thursday, October 12, 2017

8:30 am – 8:45 am	Welcome & Introductions Stephen Schoenholtz, Director Virginia Water Resources Research Center			
8:45 am – 10:00 am	Panel Session “Water Institutes: Addressing Water Issues Through Research” State Water Research Institute Directors			
10:00 am – 10:30 am	Networking Break and Exhibitor Expo			
10:30 am – 11:30 am	Introduction Paul Ziemkiewicz, Director, West Virginia Water Research Institute Keynote Session Austin Caperton, Cabinet Secretary West Virginia Dept. of Environmental Protection (confirmed)			
11:30 am – 12:40 pm	Lunch			
	Breakout Session 1			
12:40 pm – 1:50 pm	Track 1A – Using Models for Watershed Management	Track 1B – Reducing the Impacts of Stormwater Runoff	Track 1C – Insights into Groundwater	WV Dept. of Environmental Protection Roundtable ** (Intended for WV State Agency Representatives) **
	Prioritizing Lands to Protect Our Waters: a Strategic Approach with Virginia Conservation Vision	Retrofitting Stormwater Management Facilities – Benefits and Challenges	Borehole Geophysical Characterization of Fractured- Rock Aquifers in West Virginia	
	Impacts of Interpolation Schemes on Critical Source Areas Identification for Non-Point Source Pollution Control Based on SWAT Model	Effects of Semi-Permanent Structures (HabiTubes & Habi-Mats) on Benthic Populations in Restored Streams	Emerging Information on Groundwater of the Virginia Eastern Shore	
	Nutrient Modeling Tools and Training to Empower States to Meet their Modeling Needs	Pervious Concrete for Impervious Landscapes: Hydrologic Function and Regulatory Credit	Transport and Transformations of Nitrogen in Groundwater Seeps along the Stream Corridor of an Agricultural Watershed	

2:00 pm – 3:10 pm	Breakout Session 2		
	Track 2A – Understanding the Water Budget	Track 2B – Quantifying Stormwater Treatment	Track 2C – Gaining Insights from Invertebrate Organisms
	Analysis of Seasonal-to-Annual Accumulating Precipitation Distribution across the Mid-Atlantic United States, 1987-2016	Developing a National Stormwater BMP Testing and Verification Program: An Update on the Stormwater Testing and Evaluation of Products and Practices (STEPP) Initiative	The Effects of Artificial Substrates Containing Magnesium on Juvenile Oyster Recruitment and Fitness
	Water Budget Estimation Using In-situ and Remote Sensing Products in the Chesapeake Bay Watershed	Stormwater and Water Efficiency (A Global Perspective)	Chesapeake Bay Basin-Wide Index of Biotic Integrity
	The Freshwater and Liquid Waste Impact of Unconventional Oil and Gas in Ohio and West Virginia	Making Urban Trees Count: A Stormwater Crediting Framework for Urban Tree Planting	Innovative Approaches to Improve Macroinvertebrate Communities through Stream Restoration
3:10 pm – 3:40 pm	<i>Networking Break & Exhibitor Expo</i>		
3:40 pm – 5:10 pm	Breakout Session 3		
	Track 3A – Forecasting Droughts and Floods	Track 3B – Monitoring and Managing Pollution from the Urban Env.	Track 3C – Gaining Insights from Vertebrate Organisms
	Evaluation of Near-Real Time Drought Forecasting Using VIC and SWAT Models in the Contiguous U.S	Residents' Preferences in Adopting Water Runoff Management Practices: Examining the Effect of Behavioral Nudges in a Field Experiment	Effects of Unconventional Oil and Gas Development on Brook Trout Occupancy within an Actively Developing Watershed
	Investigation of Urban Flooding using the National Water Model in Southeast Virginia	Beyond Runoff Reduction-Thorough Green Infrastructure Design	Revealing the Current Relationship between Stream Acidification and Fish Species Richness: What is the Status after Two Decades of Recovery in Appalachian Streams?
	Ensemble Flood Forecasting in the U.S. Middle Atlantic Region	Tracking Illicit Discharges in Urban Stormwater Systems with Real-time 3G Wireless	Temporal Distribution of Cyanotoxins and Environmental Estrogens within the Upper and Middle Potomac River Drainage, USA
	Ensemble Flood Forecast Maps: A Case Study in the Delaware River near Philadelphia	2-Dimensional Tidal Dispersion Coefficients and Total Suspended Solids Flux Characterization in the James River	Fish and Amphibian Response Trajectories in Reconnected Coastal Plain Stream Floodplain Valleys
5:30 pm – 7:00 pm	<i>Dinner</i>		
7:00 pm – 9:00 pm	<i>Reception & Poster Session</i>		

Program Agenda (Day Two)

Friday, October 13, 2017			
8:30 am – 9:30 am	<p>Welcome & Introduction Stephen Schoenholtz, <i>Director,</i> <i>Virginia Water Resources Research Center</i></p> <p>Keynote Speaker <i>Dr. Thomas Graziano, Director,</i> <i>Office of Water Prediction,</i> <i>National Weather Service</i></p>		
9:30 am – 10:00 am	Networking Break & Exhibitor Expo		
10:00 am – 11:50 am	Breakout Session 4		
	Track 4A – Monitoring Water Quality	Track 4B – Improving Watershed Management	Track 4C – Water-Energy Nexus: Meeting Challenges and Finding Solutions
	Inputs of Pollutants to Watersheds via Atmospheric Deposition, with Implications for Human Health and Aquatic Life	Flood, Droughts and Interstate Conflicts: Why Eastern States Need to Worry about Water Quantity and Water Law	Downstream Drinking Water Impacts of Fossil Fuel Extraction and Utilization Choices
	Watershed-scale Impacts on Microbial Indicators of Water Quality	Anatomy of the 2016 Drought in New York State: Implications for Agriculture and Water Resources	Metal Reclamation Units (MRUs, Wetlands in a Box) Treating Acid Mine Drainage
	ColiFind: A Digital Image Analysis Application to Identify E. coli colonies in Coliscan Easygel Water Quality Tests	Water Infrastructure Planning Under Uncertain Climate Change: Risk and Robustness-Based Approaches	Lambert Run: A Watershed Scale Approach to Remediation
	Reservoirs: Could They be Indicators of Climate Change?	Designing the Next Generation of Inland Hydrography Data – Results of the National Hydrography Requirements and Benefits Study	DMME TMDL Program Success: Restoring Impaired Coalfield Streams
	20 Years of Measured Changes in the Shenandoah River Quality	Identifying Key Issues in Water Quality Perceptions in Northern West Virginia	Design and Construction of a Micro-scale Anaerobic Digester/Power Process

11:50 am – 1:00 pm	<i>Lunch</i>	
1:00 pm – 2:50 pm	Breakout Session 5	
	Track 5A – Innovative Approaches for Data Collection and Management	Track 5B – Networks and Partnerships with a Focus on Water Research
	New Monitoring Technologies for Managing Water Quality	From Coal Country to the Chesapeake: USGS Water Science in West Virginia and Virginia
	Determining Bank Erosion Hazard Index Using Unmanned Ariel Systems	Three Rivers QUEST – Managing and Displaying Water Quality Data throughout the Upper Ohio River Basin
	Remote Sensing Techniques for the Valley Creek Watershed's Headwaters	Sensing and Educating the Nexus to Sustain Ecosystems (SENSE): A Kentucky-West Virginia Partnership
	USGS Streamgaging and Innovative Approaches to Data Delivery	Water Environment and Reuse Foundation Agricultural Sector Research
	Citizen Science Improves Stream Climate Change Forecasts	The West Virginia Outdoor Learning Lab: Using Research to Create Environmental STEM Outreach
2:50 pm	Adjourn	